

Product datasheet for **RC231449**

SSC5D (NM_001195267) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SSC5D (NM_001195267) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SSC5D
Synonyms:	S5D-SRCRB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC231449 ORF sequence, codon optimized . Due to the complexity of NM_001195267, the ORF clone is codon optimized for mammalian Expression. The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGAGTCTGGCCTGTCTGCTGGCCGCACTTGTGGGATCCAGGCTGTGGAGCGGCTTAGGTTGGCCG
ACGGACCCCATGGCTGCGCTGGGAGGCTGGAGGTGTGGCATGGGGGCAGGTGGGGTACTGTATGTGACGA
TGGCTGGGATCTGAGGGACGCCGCTGTGGCATGCCGCCAGCTCGGATGTGGGGGCGCCCTTGACGACCCG
GGCGGCGCATTTTTGGCGAGGGGGCCGGTCCCGTCTGGTTGTCAGAGCTGGCTTGACAGAGGCAACGAGG
GCCAGCTCGGTCTGTGTACCATAGAGGCTGAAAAGCTCACATATGCAGCCACGAGGAGGATGCTGGGGT
GGTGTGCGCCGGACAAAGGGTAGCTAACTCCCGCAGCACTCCACAAGCCCTCTTGACGGCGCCCTGG
CCAGGTCTTCTGCTGGAAGTGTCCCTCCACTGAGGAGCCTCTGGTAACCCATGCCCGCAGCTGCAG
GCAACCCCGAGAATGCTTCCAGAAAAAGAGCCACGCCCAAGCAAGCCAAATCCACGAGGGCCCCCT
GCTGACTACAGGAGCACCGCGGCAGAAAAGACTGAGACTCGTGAGCGGACCCCATAGATGTGCGGGGAGA
CTGGAAGTGTGGCACGGGGCAGATGGGGACTGTGTGTGATGATGGTTGGGACCTGAGGGACGCTGCTG
TGGCCTGCCGGAAGTCCGGTGCCTGCGCTTCCCGCTCCTGGTGGGGTAGGTTCCGACCTGGAGC
CGGACCCGTATGGATGGACGACGTTGGCTGCGGAGGCGGTGAACAGGCCCTGCGCGATTGCCCGAGTCA
CCCTGGGGCCGACGAATTGCGACCACAGCAGGATGCCGGCCTGGTCTGTACAGGACCGCGCCCGCCG
TGAGACTGGCTGATGGGCTCACGGCTGTGAGGAAGGCTGGAGGTTGGCATGGTGACGATGGGGGTC
TGTCTGCGACGACGCTGGGATTTGCGAGATGCGGCTGTAGCCTGCCCGAAGTGGGTTGCGGCGCGCC
TTGGCAGCACGAGGAGCGTTTTTCGGAGAGGGGAGCGGCCCATCATACTCGACGACTTGAGATGTC



GCGGAAACGAAACGGCTCTCCGGTTCTGCCCGCAAGGCCATGGGGGACGATGACTGTACCACC CGCA
 GGATGCCGGCGCCGATGTGACGGGATGCCCTTGGGCTACGTCCCACCAACTGCCCCACTGATAGTAAC
 AATTCCACCCCTAGAGAGGCTGCTTCTCGACCACCAAGTACCATGACTTCCCAAGCGCCCGAACC CGAG
 GTGTAAGCCCGCTCCCGCTCTCCAACAGTGTGTGGGAACCCGGCCAGAAGCCGGCTCTCCCAACT
 GCGACTCGTTGCCGGCCGAGCAATGCAGCGCCGGCTTGAGGTGTGGCATGATCAGAGGTGGGGCAGG
 GTCTGTGACGATTCTGGGATATGCGAGACTCAGCGTTGTCTGTGCGGAACTCGGATGCGGCGGGCCTC
 AGCAGCCGATCCAGCCGAGGAAGTTCCGCTGGGGGGCCGGCCATCTGGCTCGATGACGTTGGGTG
 CGTGGGCACAGAAGCTTCCCTTTCCGATTGTCCGCGGCCCTGGGGTAAGCATAATTGCGCCCAAT
 GAAGACGTTGGAGTGACTTGTACAGGGCCCTGGATTGGACTCCATAAGTGATCCTTTTTTCATGGTCAT
 GGATCCCGCCCTGGGAAGAGATAGGGACGCATGGCTTCCGGGCGAACTCGCCACCAAGCCTAGCGCTAG
 CGTGACAGCAAGTGTGTTGAAAAGACGACTACGAAGGCTCCAGGCAAGATGCCGAAAAGTACAAAAAA
 TGGGTGACTAAAAATGCAAAGCGCCACCACACAGCCGCTGTGATGCCTACTACCAAACACAGTCGGG
 CTCAGAGCCACCCGACCTGACCTCACAGACAAGTGCAGCTCTGACAAGTGGGCTAGTAGACGGCCAAC
 CAGCGAGTCACTAGACGACCTACAACCGAAGCTCCTCAGCGATGGACCAGTACACGACCGCGACTC
 ACCCCCCAGGCCAAGAGAAAGGACTACAAAAACAATGGCAATGCTCACCACACAGGGCCCGCAGGAGA
 TGACCAGCGAATCTACAATCAAGAGTATCCACAGGCTAGTCTGGAGCCAGCGGGAGATCCCTGAAGG
 CTCACCTGAATACCCAAAGATCCTGCGCCATCCCTTCCGTTTCAACAACAGGGCAGAGCGGCCTTTTT
 AGAGTTCGGCTGGCTGATGGCCTAACAGGTGCGCCGGCGGCTTGAGGTGTGGCATGCGGGCCGGTGGG
 GTACAGTGTGCGATGATAACTGGGATCTTAGGGACGCCACGGTCGCTTGTGGGAGCTGGGTTGCGGCAA
 GGTAAAGCCAAGGTGGGAAGACTCACTACGGCCCTGGGACCGGTCCGATTTGGCTCGACGACATGGGC
 TGTAAAGGAAGTGGGCTCACTGTCTGACTGCCATCTGGAGCCTGGGTAAGCACAAGTGTGACCATG
 AGGAGGACGTGGGCTTACCTGCAGTGGTTACTGATGATTACGACGACTATCCTCCTTGGACTTGGGACCC
 CACTCCCGGGAGGACCTCGCGAAAGGAACGACCCAGGCGTCCCGGGCCACACCCTTCTTTGGCGA
 ACACCAGACGCCCGGACGAGCTCACCAGCGATCAGGAGGCTGCTGATACTGAGCCGAAGCAGGAG
 CCCTAGAGGAGACGCCACCCAGGAGTAGAACCGCTAGAGTAGCTGCACCCCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231449 representing NM_001195267
 Red=Cloning site Green=Tags(s)

MRVLACLLAALVGIQAVERLRLADGPHGCAGRLEVWHGGRWGTVCDDGWDLRDAAVACRQLGCGGALAAP
 GGAFEGEGAGPVWLSELACRGNEQLGLCHHRGWKAHICSHEDAGVVCAGQRVANSRDDSTPLDGAPW
 PGLLELSPSTEEPLVTHAPRPAGNPQNASRKKSPRPKQAKSTRAPLLTTGAPRQERLRLVSGPHRCAGR
 LEVWHGGRWGTVCDDGWDLRDAAVACRELGCGGALAAPGGARFGPGAGPVMMDDVCGGGEQALRDCPRS
 PWGRSNCDSHEDAGLVCTGPAPRLRLADGPHGCAGRLEVWHGGRWGSVCDDAWDLRDAAVACRELGCGGA
 LAAPGGAFFGEGSGPIILDDLRCRGNETALRFPCARPWGQHDCHHREDAGAVCDGMPLGYVPPTAPTDSN
 NSTPREAASRPPSTMTSQAPGTAGVSPPPASPTVLWEPGPEAGSPQLRLVAGPSKCSGRLEVWHDRWGT
 VCDDSWDMRDSAVVCRELGCGGPQPPAAGRFGWGAGPIWLDVGVGTEASLSDCPAAPWGKHNCAHN
 EDVGVCTGPPGLDSISDPFSWSWIPGLGRDRDAPLPELATKPSASVTASVLEKTTTKAPGKMPKSTKK
 WVTKNAKRPTTQPPVMTTKHSRAQSPPDLTSQTTAALTTEASRRPTSEFTRRPTTEAPQRWTSHTTATL
 TPQAPRERTTKMAMLTQGPQEMTSESTIKSIPQASLEPSAEIPEGSPESPKDPAPSPSVSTTGESGLF
 RVRLADGPNRCAGRLEVWHAGRWGTVCDDNWDLRDATVACWELGCGKVRPRVKGKTHYGPGTGPIWLDMDG
 CKGSEASLSDCPSGAWGKHNCDEEDVGLTCTGYTDYDYPWTWDPTSREDLAKGTTTAGVPGHTLPWR
 TTRRPGSSPAIRRLPDTEPEAGAPRGDAPRSRTARVAAPP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001195267

ORF Size: 2853 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001195267.1](#), [NP_001182196.1](#)

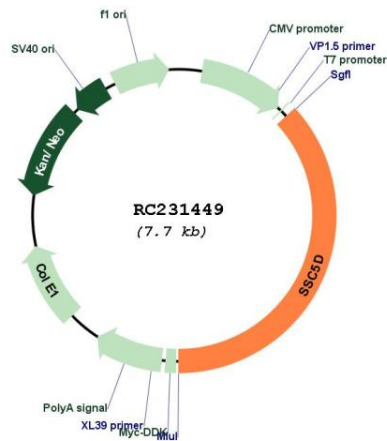
RefSeq Size: 3081 bp

RefSeq ORF: 2856 bp

Locus ID: 284297

UniProt ID: [A1L4H1](#)
Cytogenetics: 19q13.42
MW: 100.6 kDa
Gene Summary: Binds to extracellular matrix proteins. Binds to pathogen-associated molecular patterns (PAMPs) present on the cell walls of Gram-positive and Gram-negative bacteria and fungi, behaving as a pattern recognition receptor (PRR). Induces bacterial and fungal aggregation and subsequent inhibition of PAMP-induced cytokine release. Does not possess intrinsic bactericidal activity. May play a role in the innate defense and homeostasis of certain epithelial surfaces (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC231449